

Claims

1 1. A computer system for inputting, storing, organizing and retrieving patient/user
2 medical records, clinical tests, and personal identification data, primarily for use in
4 emergency medical situations, comprising:
5 a. providing an original document containing a medical records, clinical tests and
5 other original identification documents of a patient/user;
6 b. converting said medical record to a digital record for storage in a data
7 storage device;
8 c..simultaneous with digitizing said document, assigning and embedding (digital
9 watermark) a unique digital patient identifier to said records;
10 d. simultaneous with digitizing said document , assigning and embedding (digital
11 watermark) a unique alpha numerical digital physician signature to said document;
12 e. assigning a priority code to said digital record based on the records clinical
13 significance, severity of condition and relevance to providing emergency medical
14 treatment, or other medical treatment, to said user/patient,;
15 f. storing said digital record(s) with assigned unique patient identifier, unique digital
16 physician signature, and priority code in a data storage device;
17 g. providing a request for a medical record using a unique patient identifier and/or
18 physician electronic signature or other record(s) identification means;
19 h. retrieving said digital record based on said priority code and/or physician
20 signature, if the unique patient identifier and/or physicians electronic signature
21 provided in step (g) matches the unique patient identifier and/or physicians electronic
22 signature on said digital record.
23 I. providing a means for updating said patient/user medical information on a routine
24 basis as their medical condition, prescriptions and clinical tests change

1 2. The computer system of claim 1 wherein said priority code is assigned according
2 to a weighted average means or other calculated means, based on the severity of the
3 medical condition, and its clinical relevance in treating the patient/user during a
4 medical emergency, or for other routine medical treatments. .

1 (3. The process of claim 1 wherein said priority code is assigned according to
2 severity of a condition in said medical record.)

1 3. The computer system of claim 1 wherein the patient/user medical data is
2 condensed and organized in data fields in digital page format (fig 3) based on the
3 clinical relevance and/or utility of the data in treating a patient in a medical emergency.
4 or other medical scenario.

1 4. The computer system of claim 1 wherein said unique patient identifier and/or
2 unique digital physician signature are provided for security and identification and said
3 digital record is rapidly retrieved using 24 hour a day intranet or internet access (website
4 viewing, download or other means) during a medical emergency or other medical
5 scenario to provide clinically accurate and timely medical treatment to said
6 patient/user, or for routine updating of said patient records.

1 5. The computer system of claim 1 wherein said unique patient identifier and/or
2 unique digital physician signature are provided and said medical data is retrieved
3 using 24 hour a day e-mail access for rapid access to the medical data in a medical
4 emergency or other medical scenario, or for routine updating of said patient records.

1 6. The computer system of claim 1 wherein said unique patient identifier and/or
2 unique digital physician signature are provided and said medical data is rapidly
3 retrieved using 24 hour a day telephone voice access, for emergency and/or routine
4 patient treatment and reference.

1 (7. The process of claim 1 wherein steps (a) - (f) are repeated for a plurality of
2 medical records for a patient, each of the medical records having the same unique
3 patient identifier and a different priority code.)

1 (8. The process of claim 7 wherein the retrieving step includes displaying said
2 digital records in order based on said priority code.)

1 7. The computer system of claim 1 wherein the user/patient medical data is encrypted
2 for securing and confidentiality.

1 8. The computer system of claim 1 wherein the unique alpha numerical physician
2 signatures are stored in a digital library, and said physician signatures are compared to
3 new and existing patient records to verify their originality and medical integrity.

1 9. The computer system of claim 1 and claim 4 wherein the patient/user medical
2 records and prescriptions can be updated and changed as a patient's condition
3 changes via the Internet or Intranet, using the unique patient identifier or other means,
4 for security access and confidentiality, continuously and 24 hours a day.

1 10. The computer system of claim 1 wherein said patient medical records and data can
2 be rapidly electronically mailed to remote locations, via wireless, optical or other
3 appropriate electronic means for timely treatment of patient in a medical emergency or
4 for routine medical treatment, continuously and 24 hours a day.

1 11. The computer system of claim 1 wherein a unique telephone exchange system and
2 a plurality of computer workstations allow for a plurality of different patient records to
3 be simultaneously transmitted and received by the system continuously and 24 hours a
4 day.

1 12. The computer system of claim 1 wherein the original patient records are converted to
2 digital format by a unique optical scanner which simultaneously embeds (digital
3 watermark) said unique digital physician signature and unique patient identifier into
4 said patient record to verify document originality and for security purposes.

1 13. The computer system of claim 1 and claim 4 wherein the patient records can be
2 accessed from a remote location and printed in hard copy format via any appropriate
3 black and white or color printing means where in the medical diagnostic and medical
4 integrity of the records is maintained, for emergency medical treatment or other medical
5 purposes.

1 14. The computer system of claim 1 wherein said records can be accessed in a
2 remotely via the internet, telephone voice system, e-mail or other means, by
3 assigning a unique security PIN number, or other appropriate security means, to the user.

1 15. The computer system of claim 1 and claim 13 wherein a unique signal
2 router/controller allows for a plurality of patient records to be simultaneously transmitted
3 and received without data corruption or crosstalk, security checked with said physician
4 signature and/or said patient identifier, to service a plurality of medical emergencies or
5 other medical scenarios in a secure and confidential manner.

1 16. The computer system of claim 1 wherein a plurality of data inputs from remote
2 locations, including said unique optical scanners and/or existing digital databases,
3 can transmit and receive secure patient records, for access in a medical emergency
4 and for other medical scenarios.

1 17. The computer system of claim 1 having appropriate remote and local computer
2 workstations to input, transmit and receive said patient records and data 24 hours
3 a day to service medical emergencies and other medical scenarios.

1 18. The computer system of claim 1 and claim 13 wherein the patient records and data
2 are accessed through the unique telephone exchange via said PIN, unique patient
3 identifier, said physician signature or other appropriate security means on a 24 hour
4 basis for servicing medical emergencies and other medical scenarios.

1 19. The computer system of claim 1 wherein the patient can wear or carry a medical
2 card, medical jewelry or other appropriate device which designates that the person
3 has a medical condition and that their medical records are accessible using their
4 unique identifier number and either the Internet, website or said telephone exchange.

((PROCESS FOR STORING AND RETRIEVING USING EXISTING STORED DATA))

20. A process, including appropriate software routines, for inputting, storing, organizing and retrieving patient/user medical records, clinical tests, and personal identification data, primarily for use in emergency medical situations, comprising:
- a. providing an original document containing a medical records, clinical tests and other original identification documents of a patient/user;
 - b. converting said medical record to a digital record for storage in a data storage device;
 - c..simultaneous with digitizing said document, assigning and embedding (digital watermark) a unique digital patient identifier to said records;
 - d. simultaneous with digitizing said document , assigning and embedding (digital watermark) a unique alpha numerical digital physician signature to said document:
 - e. assigning a priority code to said digital record based on the records clinical significance, severity of condition and relevance to providing emergency medical treatment, or other medical treatment, to said user/patient,;
 - f. storing said digital record(s) with assigned unique patient identifier, unique digital physician signature, and priority code in a data storage device;
 - g. providing a request for a medical record using a unique patient identifier and/or physician electronic signature or other record(s) identification means;
 - h. retrieving said digital record based on said priority code and/or physician signature, if the unique patient identifier and/or physicians electronic signature provided in step (g) matches the unique patient identifier and/or physicians electronic signature on said digital record.
 - i. providing a means for updating said patient/user medical information on a routine basis as their medical condition, prescriptions and clinical tests change

- 1 21.. The process of claim 20 wherein said priority code is assigned according
- 2 to a weighted average means or other calculated means, based on the severity of the
- 3 medical condition, and its clinical relevance in treating the patient/user during a
- 4 medical emergency, or for other routine medical treatments. .

1 22. The process of claim 20 where in the patient/user medical data is
2 condensed and organized in data fields in digital page format (fig 3) based on the
3 clinical relevance and/or utility of the data in treating a patient in a medical emergency,
4 or other medical scenario.

1 23. The process of claim 20 wherein said unique patient identifier and/or
2 unique digital physician signature are provided for security and identification and said
3 digital record is rapidly retrieved using 24 hour a day intra or internet access (website
4 viewing, download or other means) during a medical emergency or other medical
5 scenario to provide clinically accurate and timely medical treatment to said patient/user, 6
 or for routine updating of said patient records.

1 24. The process of claim 20 wherein said unique patient identifier and/or
2 unique digital physician signature are provided and said medical data is retrieved
3 using 24 hour a day e-mail access for rapid access to the medical data in a medical
4 emergency or other medical scenario, or for routine updating of said patient records.

1 25. The process of claim 20 wherein said unique patient identifier and/or
2 unique digital physician signature are provided and said medical data is rapidly retrieved
3 using 24 hour a day telephone voice access, for emergency and/or routine patient
4 treatment and reference.

1 26. The process of claim 20 wherein the user/patient medical data is encrypted
2 for securing and confidentiality.

1 27. The process of claim 20 wherein the unique alpha numerical physician
2 signatures are stored in a digital library, and said physician signatures are compared to 3
 new and existing patient records to verify their originality and medical integrity.

1 28. The process of claim 20 and claim 23 wherein the patient/user medical
2 records and prescriptions can be updated and changed as a patient's condition changes
3 via the Internet or Intranet, using the unique patient identifier or other means, for security
4 access and confidentiality, continuously and 24 hours a day.

1 29. The process of claim 20 wherein said patient medical records and data can
2 be rapidly electronically mailed to remote locations, via wireless, optical or other
3 appropriate electronic means for timely treatment of patient in a medical emergency or
4 for routine medical treatment, continuously and 24 hours a day.

1 30. The process off claim 20 wherein a unique telephone exchange system and a
2 plurality of computer workstations allow for a plurality of different patient records to be
3 simultaneously transmitted and received by the system continuously and 24 hours a day.

1 31. The process of claim 20 wherein the original patient records are converted to
2 digital format by a unique optical scanner which simultaneously embeds (digital
3 watermark) said unique digital physician signature and unique patient identifier into
4 said patient record to verify document originality and for security purposes.

1 32. The process of claim 20 and claim 23 wherein the patient records can be
2 accessed from a remote location and printed in hard copy format via any appropriate
3 black and white or color printing means where in the medical diagnostic and medical
4 integrity of the records is maintained, for emergency medical treatment or other medical
5 purposes.

1 33. The process of claim 20 wherein said records can be accessed in a
2 remotely via the internet, telephone voice system, e-mail or other means, by
3 assigning a unique security PIN number, or other appropriate security means, to the user.

1 34. The process of claim 20 and claim 30 wherein a unique signal
2 router/controller allows for a plurality of patient records to be simultaneously transmitted 3
3 and received without data corruption or crosstalk, security checked with said physician
4 signature and/or said patient identifier, to service a plurality of medical emergencies or
5 other medical scenarios in a secure and confidential manner.

1 35. The process of claim 20 wherein a plurality of data inputs from remote
2 locations, including said unique optical scanners and/or existing digital databases,
3 can transmit and receive secure patient records, for access in a medical emergency
4 and for other medical scenarios.

1 36. The process of claim 20 having appropriate remote and local computer
2 workstations to input, transmit and receive said patient records and data 24 hours
3 a day to service medical emergencies and other medical scenarios.

1 37. The process of claim 20 and claim 30 wherein the patient records and data
2 are accessed through the unique telephone exchange via said PIN, unique patient
3 identifier, said physician signature or other appropriate security means on a 24 hour
4 basis for servicing medical emergencies and other medical scenarios.

- 1 (1. A process for string medical records of a patient for retrieval comprising:
2 a. providing a digital record containing a medical record of a patient and a
3 physician electronic signature;
4 b. assigning a unique patient identifier to said digital record;
5 c. comparing said physician electronic signature in said digital record to a
6 database containing known physician electronic signatures;
7 d. assigning a priority code to said digital record;
8 e. storing said digital record and assigned unique patient identifier, physician
9 electronic signature and priority code in a data storage device if the
10 physician electronic signature in said digital record matches a known
11 physician electronic signature in said database;)

- 12 (f. providing a request for a medical record a unique patient identifier and
13 physician electronic signature; and
14 g. retrieving said digital record based on said priority code if the unique
15 patient identifier and physician electronic signature provided in step (f)
16 matches the unique patient identifier and physician electronic signature on
17 said digital record.))

((PROCESS FOR RETRIEVING STORED DATA)))

- 1 ((1. A process for retrieving medical records of a patient for retrieval comprising:
2 a. providing in a data storage device a plurality of digital records of a patient,
3 each digital record containing a medical record of said patient, a unique
4 patient identifier for said patient, a physician electronic signature and a
5 priority code based on information in said medical record;
6 b. providing in a request for a medical record a unique patient identifier and 7
physician electronic signature;
8 c. comparing the unique patient identifier and physician electronic signature
9 provided in step (b) with the unique patient identifier and physician
10 electronic signature in said digital records;
11 d. retrieving said digital records if the unique patient identifier and physician
12 electronic signature provided in step (b) matches the unique patient identifier
13 and physician electronic signature in said digital record; and
14 e. displaying said digital records in an order based on said priority code.)

- 1 (2. The process of claim 1 wherein said digital records are displayed in order of date
2 of medical records.)

- 1 (3. The process of claim 1 wherein said digital records are displayed in order of
2 severity of a condition in said medical record.)